BLUE SEAL®

EVOLUTIONSERIES

INSTALLATION AND OPERATION MANUAL

ELECTRIC GRIDDLE

EP514
EP516
EP518

Date Purchased

Serial Number

Dealer

Service Provider

For use in GB & IE

229351-6

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Introduction

We are confident that you will be delighted with your BLUE SEAL ELECTRIC GRIDDLE, and it will become a most valued appliance in your commercial kitchen.
To ensure you receive the utmost benefit from your new BLUE SEAL Appliance, there are two important things you can do.

Firstly:

Please read the instruction book carefully and follow the directions given. The time taken will be well spent.

Secondly:

If you are unsure of any aspect of the installation, instructions or performance of your appliance, contact your BLUE SEAL dealer promptly. In many cases a phone call could answer your question.

CE Only:

These instructions are only valid if the country code appears on the appliance. If the code does not appear on the appliance, refer to the supplier of this appliance to obtain the technical instructions for adapting the appliance to the conditions for use in that country.

WARNING:

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS APPLIANCE.

WARNING:

GREAT CARE MUST BE TAKEN BY THE OPERATOR TO USE THE EQUIPMENT SAFELY TO GUARD IT AGAINST RISK OF FIRE.

- **THE APPLIANCE MUST NOT BE LEFT ON UNATTENDED.**
- **IT IS RECOMMENDED THAT A REGULAR INSPECTION IS MADE BY A COMPETENT SERVICEMAN TO ENSURE CORRECT AND SAFE OPERATION OF YOUR APPLIANCE IS MAINTAINED.**
- **DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**

CAUTION:

This appliance is;

- **For professional use and is only to be used by suitably qualified / trained persons.**
- **Only qualified service persons are to carry out installation, servicing and gas conversion operations.**
- **Components having adjustments protected (e.g. paint sealed) by the manufacturer should not be adjusted by the user / operator.**
- **DO NOT operate the appliance without the legs supplied fitted.**

Model Numbers Covered in this Specification

EP514 - B	Electric Griddle 600mm wide Bench Model.
EP514 - CB	Electric Griddle 600mm wide with Cabinet Base.
EP514 - LS	Electric Griddle 600mm wide on Leg Stand.
EP516 - B	Electric Griddle 900mm wide Bench Model.
EP516 - CB	Electric Griddle 900mm wide with Cabinet Base.
EP516 - LS	Electric Griddle 900mm wide on Leg Stand.
EP516 - RB	Electric Griddle 900mm wide with Refrigerated Base.
EP518 - B	Electric Griddle 1200mm wide Bench Model.
EP518 - CB	Electric Griddle 1200mm wide with Cabinet Base.
EP518 - LS	Electric Griddle 1200mm wide on Leg Stand.
EP518 - RB	Electric Griddle 1200mm wide with Refrigerated Base.

General

A commercial heavy duty, fully modular, electric griddle using stainless steel sheathed heating elements with dual thermostatic control zones.
Using a 20mm thick griddle plate with the option of either ribbed or chromed mirror plate options.
The Griddle is constructed as a hob unit and is available in 4 options, on Leg Stand (-LS), Bench Mount (-B), Cabinet Base (-CB) or with Refrigerated Base (RB) models (Not available for EP514 Models).

Specifications

Electrical Supply Requirements

MODEL	1-Phase Connection 1P+N+E 230-240V, 50 / 60Hz	3-Phase Connection 3P+N+E 400-415V, 50 / 60Hz
EP514	7.2 kW 30 Amps @ 240 V	---------
EP516	---------	12.0 kW L1 - 16.4 Amps L2 - 16.4 Amps L3 - 16.4 Amps
EP518	---------	18.0 kW L1 - 24.5 Amps L2 - 24.5 Amps L3 - 24.5 Amps

Electrical Connection

WARNING:

THIS APPLIANCE MUST BE EARTHED. IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

Bench Models Only
Electrical supply connection point is located at the rear of the appliance, approximately 130mm from the right hand side and 32mm from the rear and 85mm from the floor.

Cabinet Base, Leg Stand and Refrigeration Bases
Electrical supply connection point is located at the rear of the appliance, approximately 130mm from the right hand side and 32mm from the rear and 740mm from the floor.

When connecting a Blue Seal electric appliance to the main supply, ensure that the following is carried out:-

- An isolating switch is fitted within 2m of the appliance, but not on the appliance and in such a position that the user does not have to reach across the cooking surface.
- Supply cord shall be oil-resistant, sheathed flexible cable and not lighter than ordinary polychloroprene or other equivalent synthetic elastomer sheathed cord (as per AS / NZS 3191 part 2.10.11. or IEC 60245-IEC-57) e.g. H05 RN-F Type.
- The branch supply line shall be individually overload protected to the correct current rating and the supply chord shall be protected against any mechanical or thermal damage.
- A grommet is fitted around the wiring entry hole into the appliance.
- All wiring connections must be tight.

Refer to the appropriate wiring standards for the size of cable that is to be supplied to an appliance for the current drawn on that line.

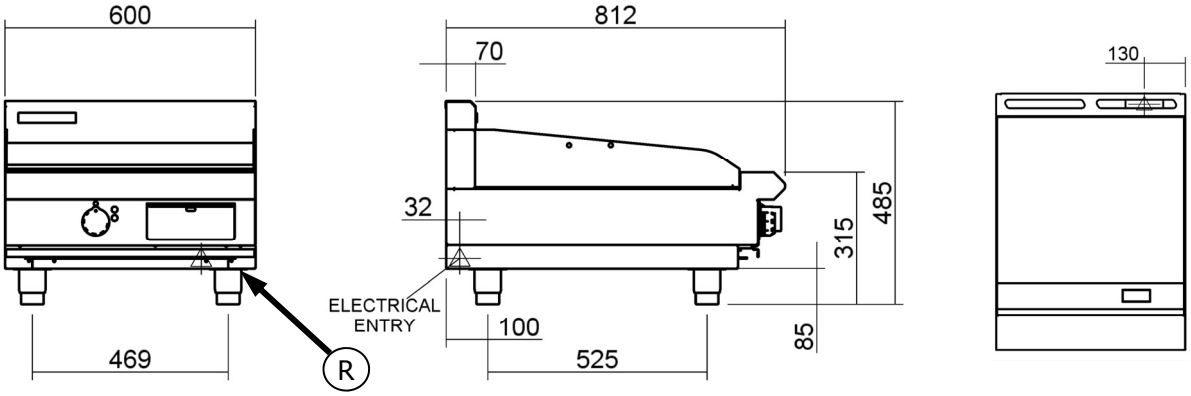
For the Refrigeration Cabinet Specifications refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

Dimensions for Bench Models

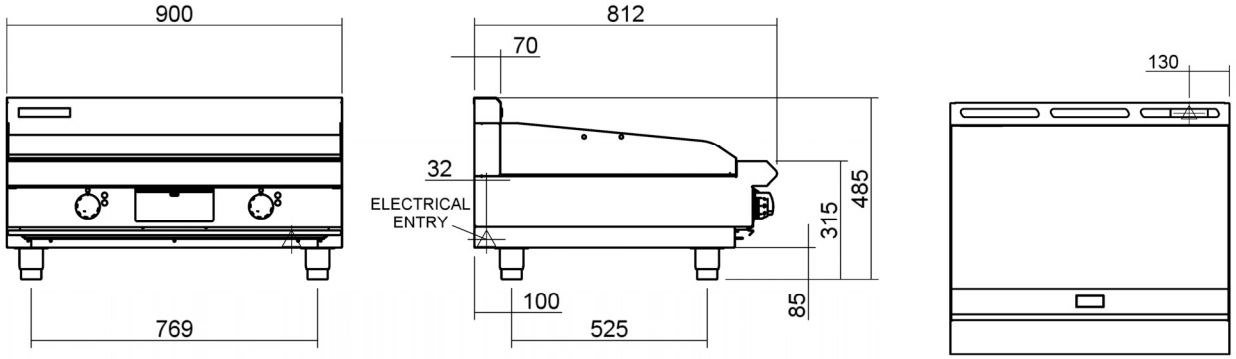
= ELECTRICAL CONNECTION POINT.

(R) = Rating Plate Location for this option.

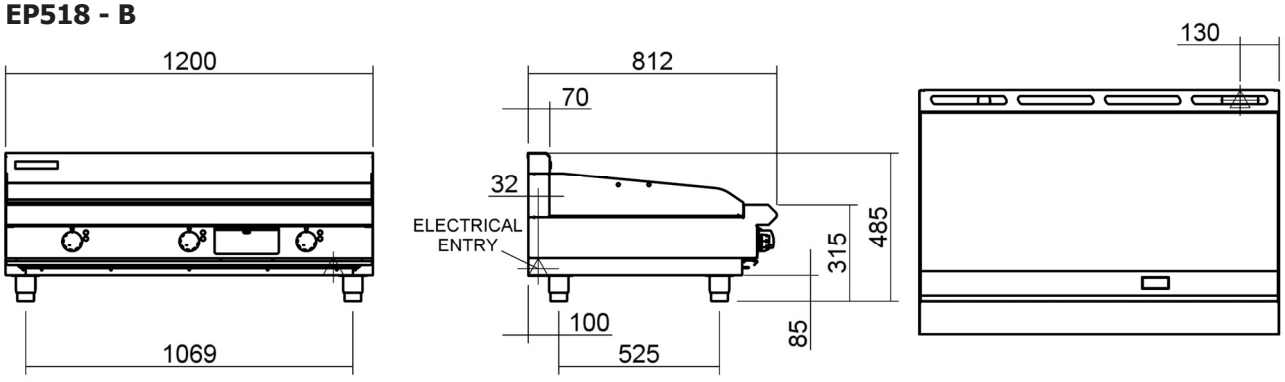
EP514 - B



EP516 - B



EP518 - B

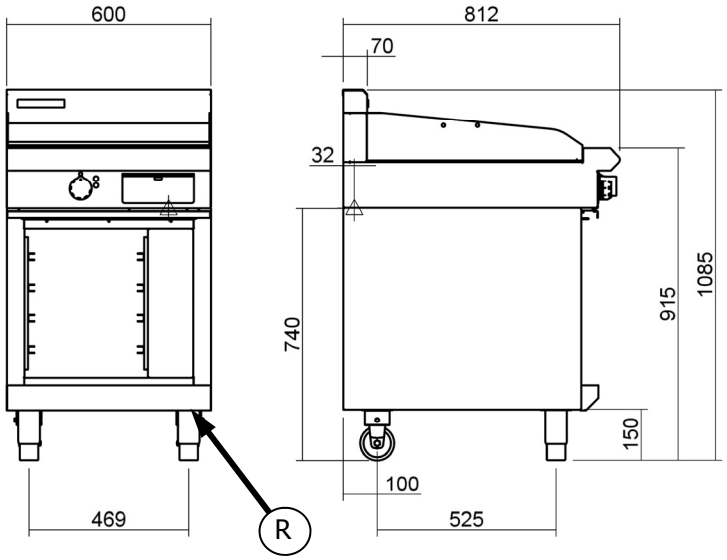


Dimensions for Cabinet Base Models

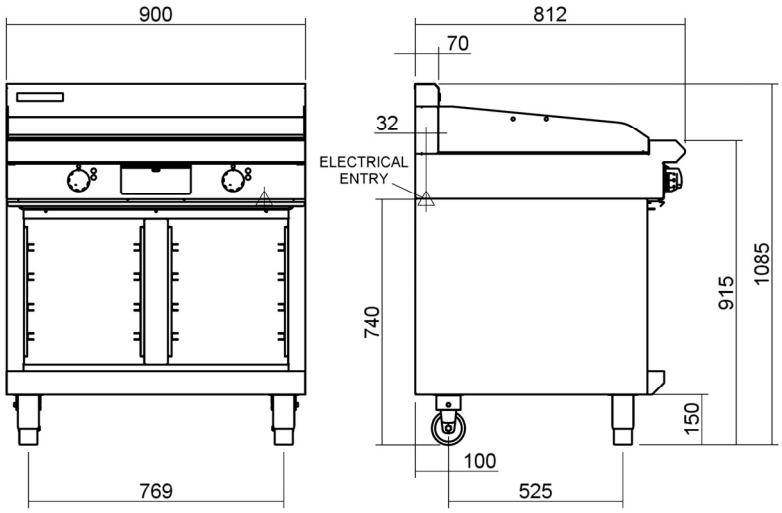
(R) = Rating Plate Location for this option.

= ELECTRICAL CONNECTION POINT.

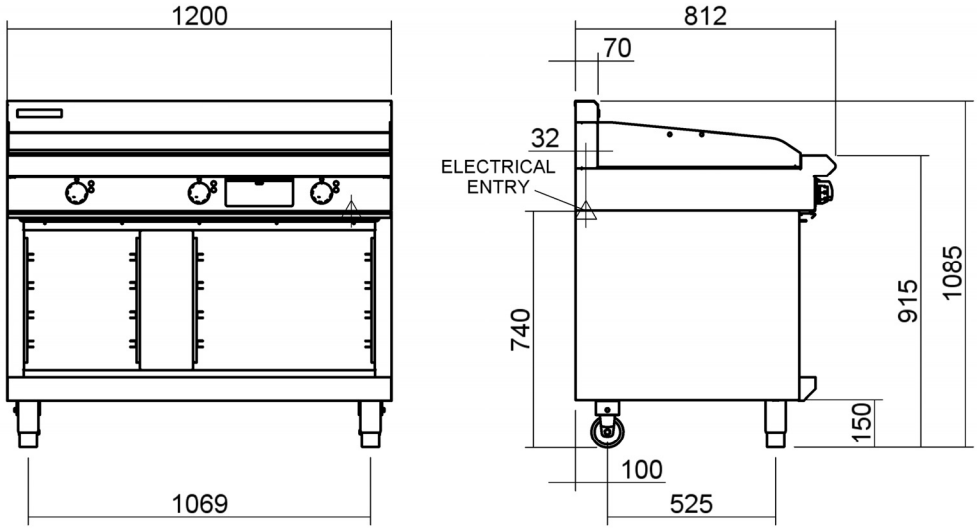
EP514 - CB



EP516 - CB



EP518 - CB

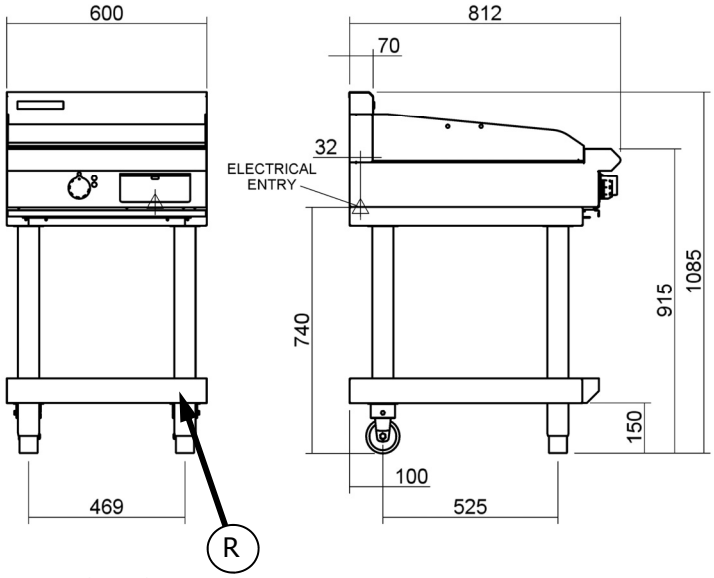


Dimensions for Leg Stand Models

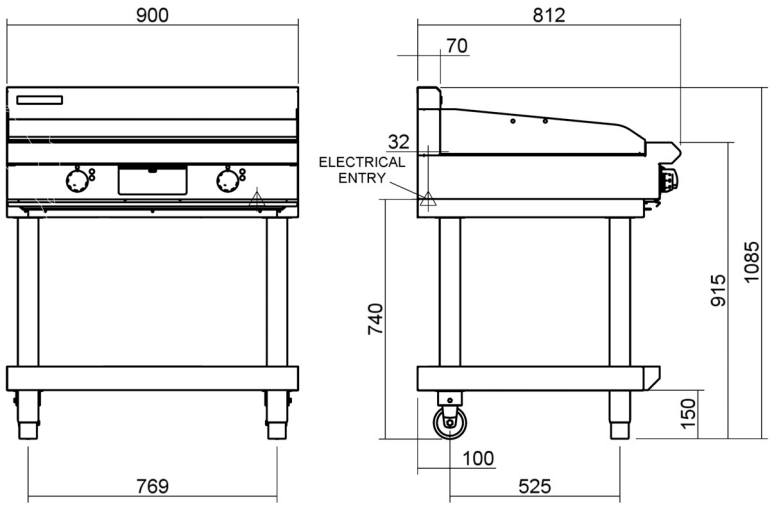
(R) = Rating Plate Location for this option.

= ELECTRICAL CONNECTION POINT.

EP514 - LS



EP516 - LS



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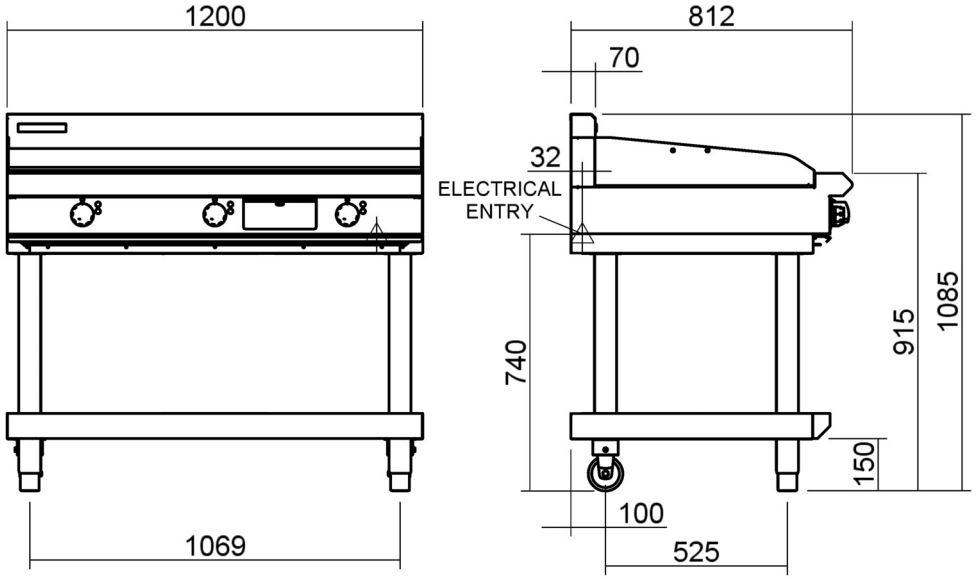
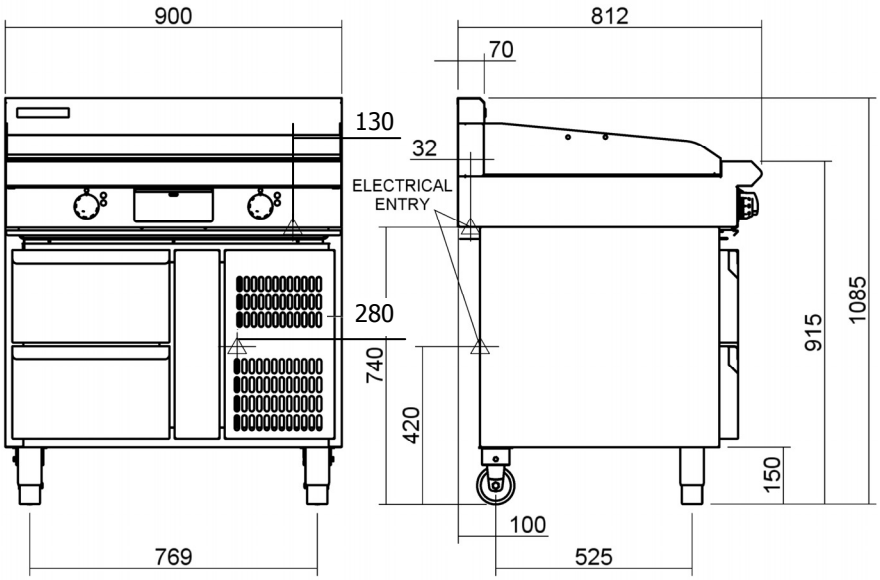


Dimensions for Refrigeration Base Models

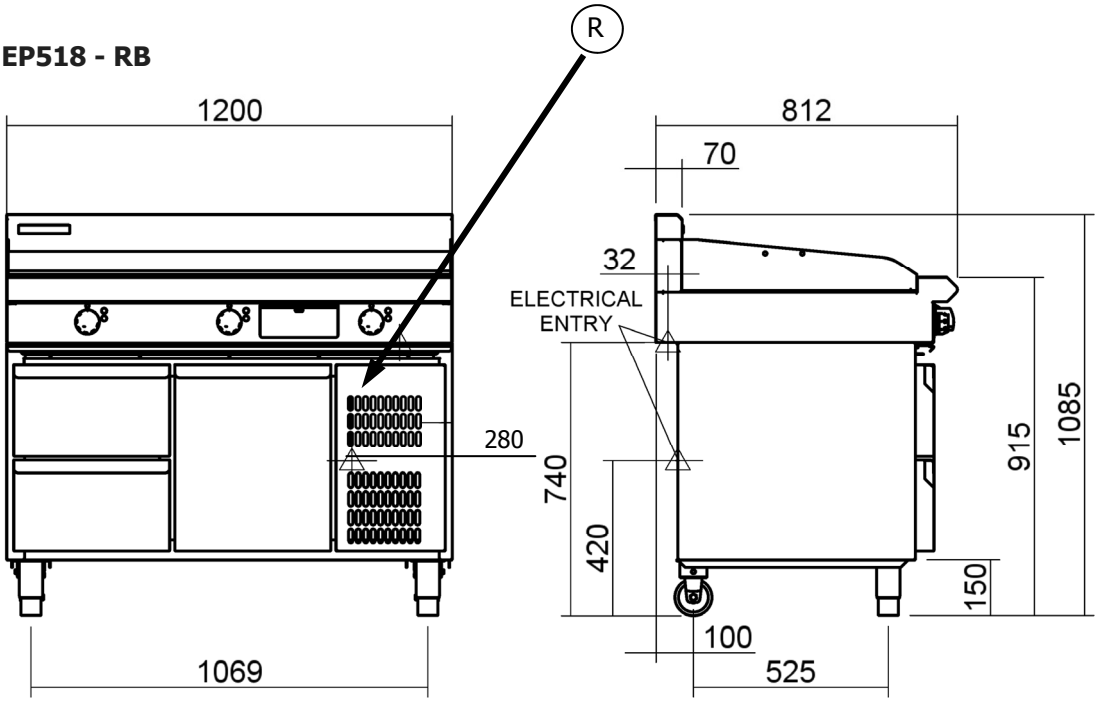
Ⓡ = Rating Plate Location for this option.

⏚ = ELECTRICAL CONNECTION POINT.

EP516 - RB



EP518 - RB



Installation Requirements

NOTE:

- **It is most important that this appliance is installed correctly and that operation is correct before use. Installation shall comply with local electrical and health and safety requirements.**
- **This appliance shall be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of health harmful substances in the room, the appliance is installed in.**

Blue Seal Electric Griddles are designed to provide years of satisfactory service and correct installation is essential to achieve the best performance, efficiency and trouble-free operation.
This appliance must be installed in accordance with National installation codes and in addition, in accordance with relevant National / Local codes covering electrical, fire and health and safety.

Australia / New Zealand	AS / NZS3000	- Wiring Rules.
United Kingdom:	BS 7671	- Requirements for Electrical Installations.

Installations must be carried out by qualified persons only. Failure to install equipment to the relevant codes and manufacturer's specifications shown in this section will void the warranty.

Components having adjustments protected (e.g. paint sealed) by the manufacturer are only to be adjusted by an authorised service agent. They are not to be adjusted by the installation person.

Unpacking

- Remove all packaging and transit protection from the appliance including all protective plastic coating from the exterior stainless steel panels.
- Check equipment and parts for damage. Report any damage immediately to the carrier and distributor.
- Ensure that the 4 adjustable feet are fitted with the protruding centre screw.
- Report any deficiencies to the distributor who supplied the appliance.
- Check that the available electrical supply is correct to that shown on the rating plate (Refer to the dimension drawings for rating plate location).

Location

1. Installation must include adequate clearance and ventilation, to prevent dangerous build up of combustion products.
2. Never directly connect a ventilation system to the appliance flue outlet.
3. Position the appliance in its approximate working position.
4. The legs (castors) must always be fitted to the base of the appliance.
5. Components having adjustments protected (e.g. paint sealed) by the manufacturer are only to be adjusted by an authorised service agent. They are not to be adjusted by the installation person.

NOTE: Do not obstruct or block the appliances flue. Never directly connect a ventilation system to the appliance flue outlet.

Clearances

	Combustible Surface	Non Combustible Surface
Left / Right Hand Side	100mm	0mm
Rear	50mm	0mm

NOTE: Only non-combustible materials can be used in close proximity to this appliance.

Assembly

CAUTION:

- **This appliance is for professional use and is to be used by suitably qualified / trained persons only.**
- **Only qualified service persons are to carry out installation and servicing of this appliance.**

All Models
All models come pre-assembled.

NOTE: This appliance is fitted with adjustable feet (castors) to enable the unit to be positioned securely and level. This should be carried out on completion of the electrical connection. Refer to the 'Electrical Connection' section.

Optional Accessories (Refer to Replacement Parts List)

- Plinth Kit. For installation details, refer to the instructions supplied with each kit.

Electrical Connection

WARNING:

THIS APPLIANCE MUST BE EARTHED. IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

NOTE: ALL ELECTRICAL CONNECTIONS MUST ONLY BE CARRIED OUT BY AN QUALIFIED PERSON.

Each appliance should be connected to an adequately protected power supply and isolation switch mounted adjacent to, but not behind the appliance. This switch must be clearly marked and readily accessible in case of fire.

1. Check that the electricity supply is correct as shown on the Rating Plate. (Refer to the dimension drawings for rating plate location).
2. The supply terminal connections are located at the rear of the the appliance. Refer to 'Electrical Connections' in the 'Specifications' section of the manual.
3. Remove the control panel to allow connection access for the electrical supply.
4. Bring the supply cable up through the grommet at the back of the appliance and through the compression type gland provided on the rear of the main electrical switchgear panel.
5. Connect the mains supply to L1, L2 and L3 fuse carrier connections for 3 phase and L1 for single phase (EP514).
6. Connect neutral and earth conductors to neutral stud and earth stud respectively.
7. For all connections ensure that conductors are secure and appropriately terminated.
8. Tighten the cable gland to secure against tension on the cable.

NOTE:

- **This appliance must be grounded / earthed.**
- **Fixed wiring installations must incorporate an all-pole disconnection switch.**

9. Correctly locate the appliance into its final operating position and using a spirit level, adjust the legs so that the appliance is level and at the correct height.
10. Connect the power supply to the appliance.
11. Check that the electrical supply is as shown in the 'Specifications' section.

Commissioning

1. Before leaving the new installation;
   a. Check the following functions in accordance with the operating instructions specified in the 'Operation' section of this manual.
      - Check the current draw and loading for the equipment. Refer to the 'Specification' section for the correct electrical requirements.
      - Check that all the connections are correct and that all cover panels have been re-fitted.
      - Check that the appliance functions in accordance with the operating instructions.
      - Ensure that this instruction manual is left with the appliance.
      - Ensure that all the relevant details and contacts have been added to the front of this manual.
   b. Ensure that the operator has been instructed in the areas of correct operation and shutdown procedure for the appliance.

2. This manual must be kept by the owner for future reference and as a record of ***Date of Purchase, Date of Installation*** and ***Serial Number of Unit*** recorded and kept with this manual. **(These details can be found on the Rating Plate. (Refer to the dimension drawings for rating plate location).**

NOTE:

- **If for some reason it is not possible to get the appliance to operate correctly, turn off the electrical power supply and contact a qualified service person. The supplier of this appliance will be able to recommend a suitable person.**
- **Make sure that the electrical supply is turned off before any service or maintenance work is carried out.**

For the Refrigeration Cabinet Installation refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

Operation Guide

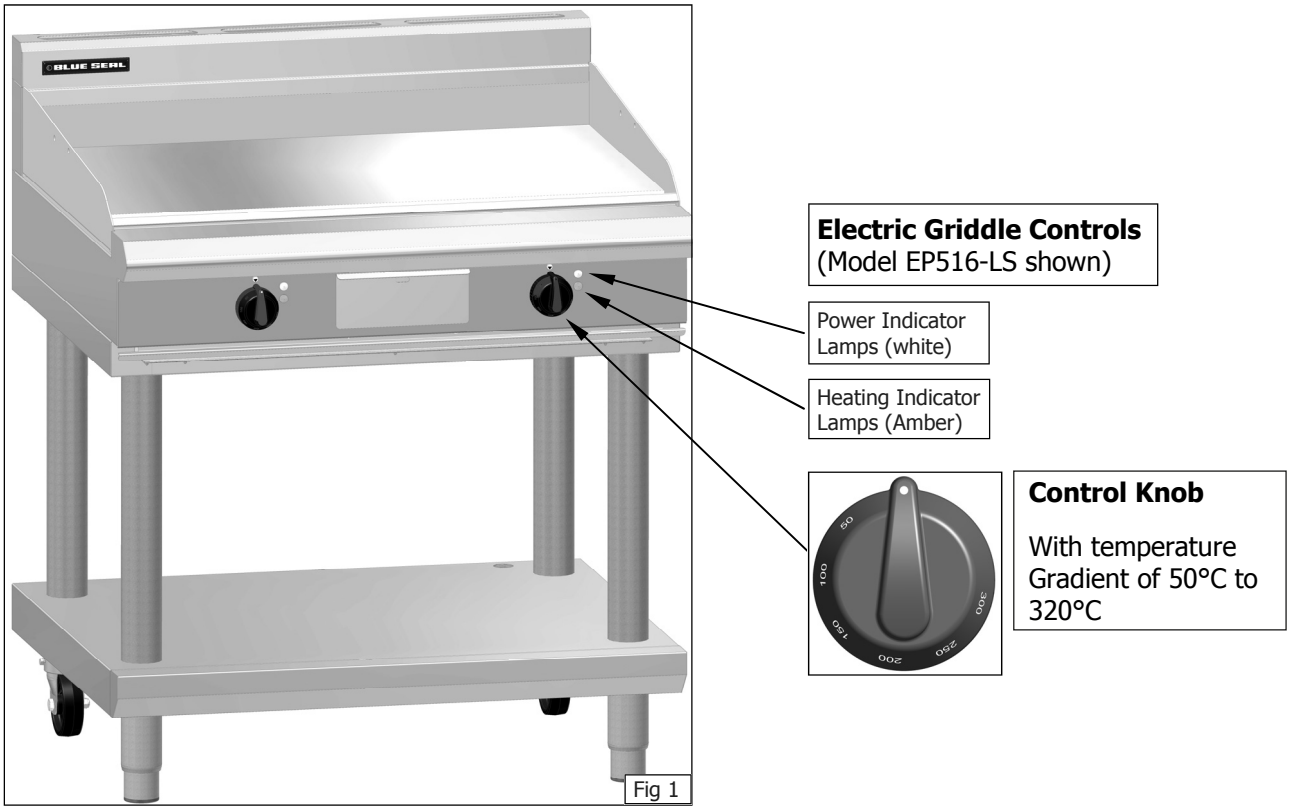
CAUTION:

- **This appliance is for professional use and is only to be used by suitably qualified / trained persons.**
- **Only qualified service persons are allowed to carry out installation and servicing of this appliance.**

1. Blue Seal Electrical Griddles have been designed to provide simplicity of operation and 100% safety protection.
2. Improper operation is therefore almost impossible, however bad operating practices can reduce the life of the griddle and produce a poor quality product. To use this appliance correctly please read the following sections carefully:-

    - Griddle.

Description of Controls



Griddle

1. Turn 'ON' the power at the mains supply, the white neon will illuminate.
2. Turn the thermostat control knob to the desired temperature. When the amber neon goes out, the desired temperature has been reached and the griddle is ready for use.

NOTE: Turning the control to a higher setting than required will not shorten the heat up time.

3. To turn 'OFF' the griddle, turn the thermostat control knob to the lowest setting and turn 'OFF' the mains power to the griddle.
4. Both the amber and white neons should not be illuminated.

For the Refrigeration Cabinet Operation refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

CAUTION:

Always turn off the electrical supply at the mains before cleaning.
This appliance is not water proof.
Do Not use water jet spray to clean interior or exterior of this appliance.

General

Clean the griddle regularly. A clean appliance looks better, will last longer and will perform better. Carbonised grease on the surface or on the griddle plate will hinder the transfer of heat from the cooking surface to the food. This will result in loss of cooking efficiency.

NOTE: Each Heavy Duty Griddle is supplied with a scraper tool and a pack of blades for cleaning the griddle surface.
- **1 Flat Blade (pack) - 1 Ribbed Blade (pack) and 2 handles for Ribbed Heavy Duty Griddle.**
- **1 Flat Blade (pack) and I handle for Smooth Heavy Duty Griddle.**

NEVER use the ribbed scraper blade on the flat chrome surfaced griddle plate.

Replacement blades and handles can be purchased separately. Refer to the 'Replacement Parts List' at the rear of the manual.

WARNING:

THE BLADES FITTED TO THE SCRAPER TOOL ARE EXTREMELY SHARP AND ARE TO BE USED WITH CARE.

DO NOT use water on the griddle plate while this item is still hot as warping and cracking may occur. Allow the griddle plate to cool down before cleaning.

NOTE:
- **DO NOT use abrasive detergents, strong solvents or caustic detergents as they could corrode or damage the griddle.**
- **In order to prevent the forming of rust on the griddle plate (Steel Plate), ensure that any detergent or cleaning material has been completely removed after each cleaning. The appliance should be switched on briefly to ensure the griddle plate becomes dry. Oil or grease should be spread over the griddle surface in order to form a thin protective greasy film.**

To keep your griddle clean and operating at peak efficiency, follow the procedures shown below:-

After Each Use

CAUTION:

Always ensure that an even pressure is applied over the whole surface of the scraper tool when using on the flat chromed surface of the griddle, to prevent scoring of the surface.

NEVER bang the sharp edge of the scraper tool on the flat chromed surface of the griddle as this will damage the chrome finish and invalidate the warranty.

1. Clean the griddle with the supplied scraper tools to remove any food debris.
2. Always ensure that the scraper tool blades are changed regularly to ensure that the scraper tool works efficiently and prevents damage to the griddle plate surface.

Daily Cleaning

1. The grease drawer should be checked and emptied frequently to prevent overflow and spillage. Remove the grease drawer while still warm so that the grease is in a liquid state. Empty any grease from the drawer and wash thoroughly in the same manner as any cooking utensil.
2. Clean the Control Panel with a damp cloth lightly moistened with a solution of mild detergent and water.
3. Thoroughly clean the splash back, the interior and exterior surfaces of the griddle with hot water, a detergent solution and a soft scrubbing brush.
4. Brush the griddle surface with a soft bristled brush. Any carbon deposits should be removed using the supplied scraper tool followed by wiping with a cloth to prevent accumulation of food deposits.
5. Dry the griddle thoroughly with a dry cloth and polish with a soft dry cloth.

NOTE: Chrome Griddle Plate; DO NOT use abrasive detergents, strong solvents or caustic detergents as they could corrode or damage the chrome plate.

Weekly Cleaning

NOTE:

- **If the griddle usage is very high, we recommend that the weekly cleaning procedure is carried out on a more frequent basis.**
- **Ensure that protective gloves are worn during the cleaning process.**
- **DO NOT use harsh abrasive detergents, strong solvents or caustic detergents as they will damage the griddle and burners.**
- **DO NOT use water on the griddle plates while they are still hot as warping may occur. Allow these items castings to cool and remove for cleaning.**

Griddle - Steel Plate

NOTE: In order to prevent the forming of rust on the griddle plate, ensure that all detergent and cleaning material has been entirely removed after each cleaning process. The appliance should be switched on briefly to ensure the griddle plate becomes dry. Oil or grease should be spread over the griddle surface in order to form a thin protective greasy film.

a. Remove and clean the grease collection drawer frequently to prevent over spills.
b. Clean the griddle surface thoroughly with the supplied scraper tool or a wire brush. If necessary use a griddle stone or a scotch bright pad on the griddle surface for the removal of stubborn or accumulated carbon deposits.
c. Occasionally bleach the griddle plate with vinegar when the plate is cold.
d. Clean with hot water, a mild detergent solution and a scrubbing brush. Dry all components thoroughly with a dry cloth.
e. The griddle should be switched on briefly to ensure that the griddle plate becomes dry. A thin smear of cooking oil should be spread over the griddle in order to form a protective film.

Griddle - Chrome Plate

CAUTION:

Always ensure that an even pressure is applied over the whole surface of the scraper tool when using on the flat chromed surface of the griddle, to prevent scoring of the surface.

NEVER bang the sharp edge of the scraper tool on the flat chromed surface of the griddle as this will damage the chrome finish and invalidate the warranty.

NOTE: In order to maintain the finish on the chrome griddle plate, ensure that all detergent and cleaning material has been entirely removed after each cleaning process. The appliance should be switched on briefly to ensure the griddle plate becomes dry.

a. Remove and clean the grease collection drawer frequently to prevent over spills.
b. Clean the griddle surface thoroughly with the supplied scraper tool.
c. Allow the plate to cool, then clean the plate with a scrubbing brush, a mild non-abrasive detergent and water.
d. Occasionally bleach the plate with vinegar when cold.
e. Dry the griddle thoroughly with a dry cloth and polish with a soft dry cloth.
f. The griddle should be switched on briefly to ensure that the griddle plate becomes dry.

Griddle Cooking Area

a. Clean the griddle cooking area with a soft cloth and a mild detergent and hot water solution.
b. Baked on deposits or discolouration may require a good quality stainless steel cleaner or stainless steel wool. Always apply cleaner when the appliance is cold and rub in the direction of the grain.
c. Remove the grease drawer and clean with a mild anti bacterial detergent and hot water solution using a soft bristled brush. Dry the grease drawer thoroughly with a dry cloth.

Stainless Steel Surfaces

a. Clean the exterior surfaces of the griddle with hot water, a mild detergent solution and a soft scrubbing brush. Note that the control knobs are a push fit onto the spindles and can be removed to allow cleaning of the front control panel.
b. Baked on deposits or discolouration may require a good quality stainless steel cleaner or stainless steel wool. Always apply cleaner when the appliance is cold and rub in the direction of the grain.
c. To remove any discolouration, use an approved stainless steel cleaner or stainless steel wool. Always rub in the direction of the grain.
d. Remove the grease tray and clean with a mild anti bacterial detergent and hot water solution using a soft bristled brush.
e. Dry the grease tray thoroughly with a dry cloth.
f. Dry all components thoroughly with a dry cloth and polish with a soft dry cloth.

Periodic Maintenance

To achieve the best results, cleaning must be regular and thorough and all controls and mechanical parts should be checked and adjusted periodically by a competent serviceman. If any small faults occur, have them attended to promptly. Don't wait until they cause a complete breakdown. It is recommended that the appliance is serviced every 6 months.

For the Refrigeration Cabinet Cleaning and Maintenance refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

Fault Finding

This section provides an easy reference guide to the more common problems that may occur during the operation of your equipment. The fault finding guide in this section is intended to help you correct, or at least accurately diagnose problems with your equipment.

Although this section covers the most common problems reported, you may encounter a problem not covered in this section. In such instances, please contact your local authorised service agent who will make every effort to help you identify and resolve the problem. Please note that the service agent will require the following information:-

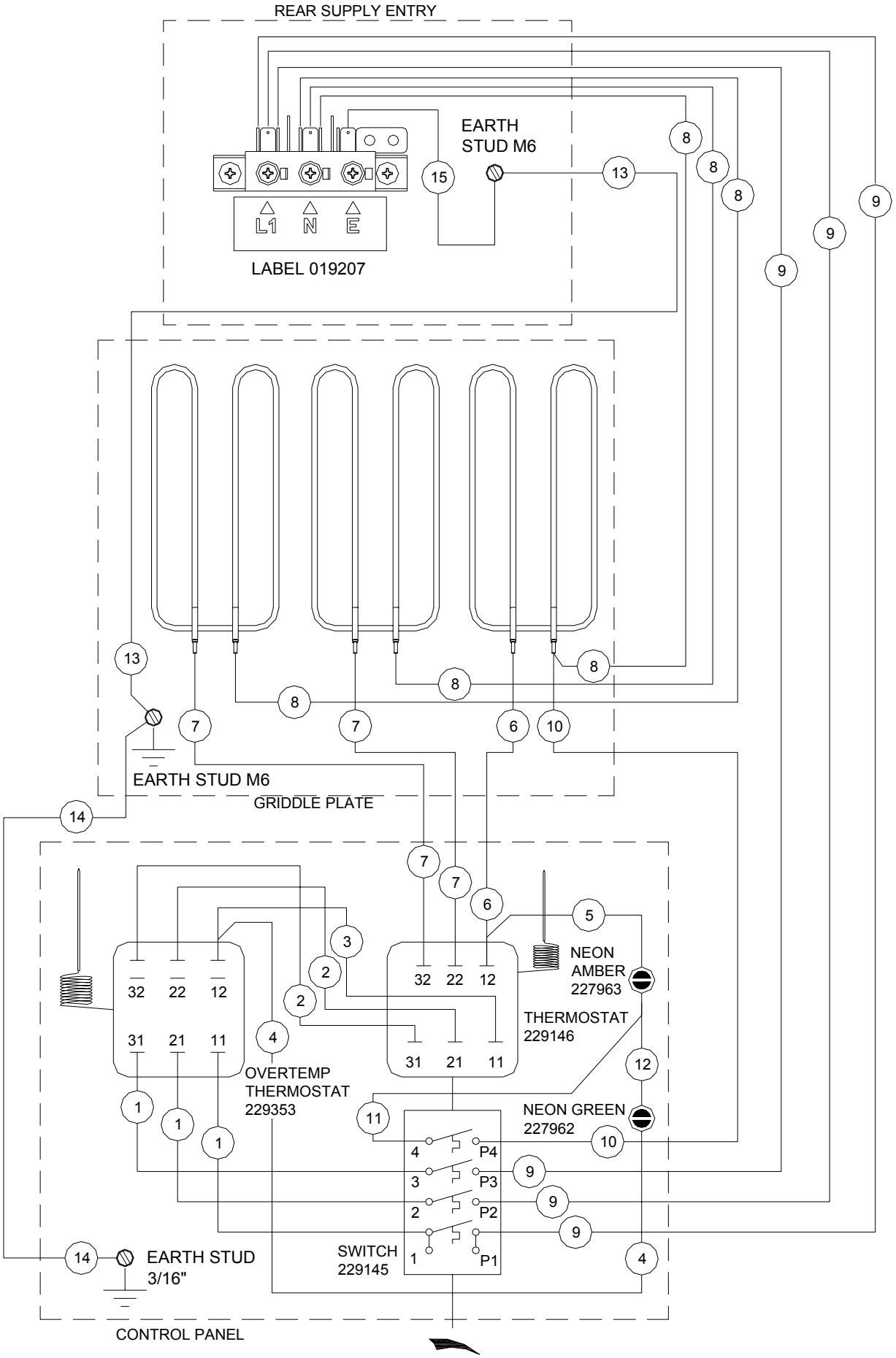
- **The Model Trade Name and the Serial Number of the Appliance. (both can be found on the Technical Data Plate located on the appliance. (Refer to the 'Dimensions' section).**

Fault	Possible Cause	Remedy
Element does not work when turned 'ON'.	Check individual fuses located behind the control panel. Check for an electrical short by checking that there is NO continuity between any 'Phase In' line and the metal appliance body itself. Check for the item failing (element, control etc) by using a multimeter as shown on following pages.	Replace the blown fuse. Call the service provider.
Complete power failure of the appliance	Check fuse connection at the mains supply. Ensure that the fuse size is correct to carry the load. Check for an electrical short to the appliance.	Replace the blown fuse. Carry out a continuity and resistance check on the appliance. Call the service provider.

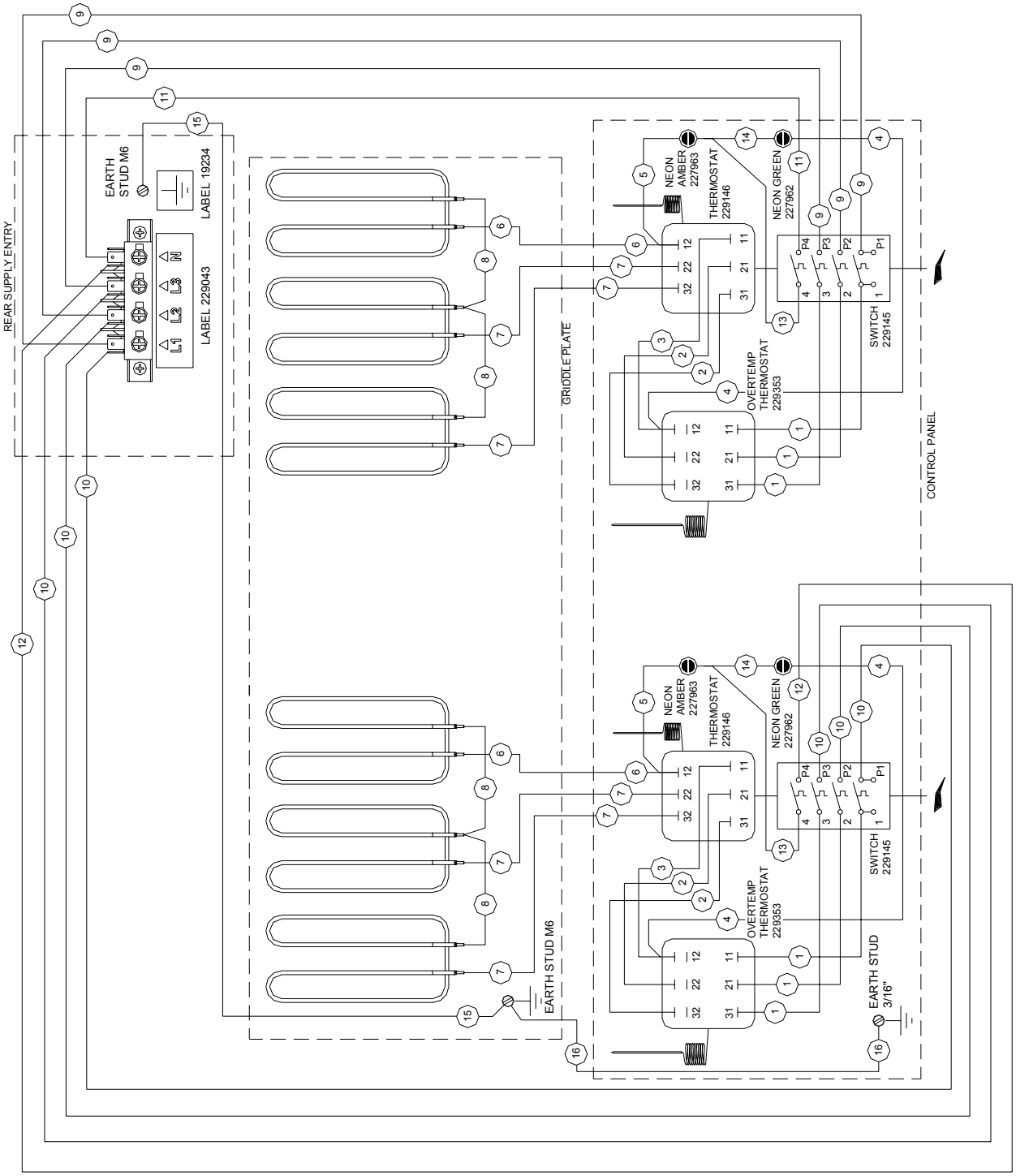
NOTE: Components having adjustments protected (e.g. paint sealed) by the manufacturer, are only to be adjusted by an authorised service agent. They are not to be adjusted by an unqualified service person.

For the Refrigeration Cabinet Fault Finding details, refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

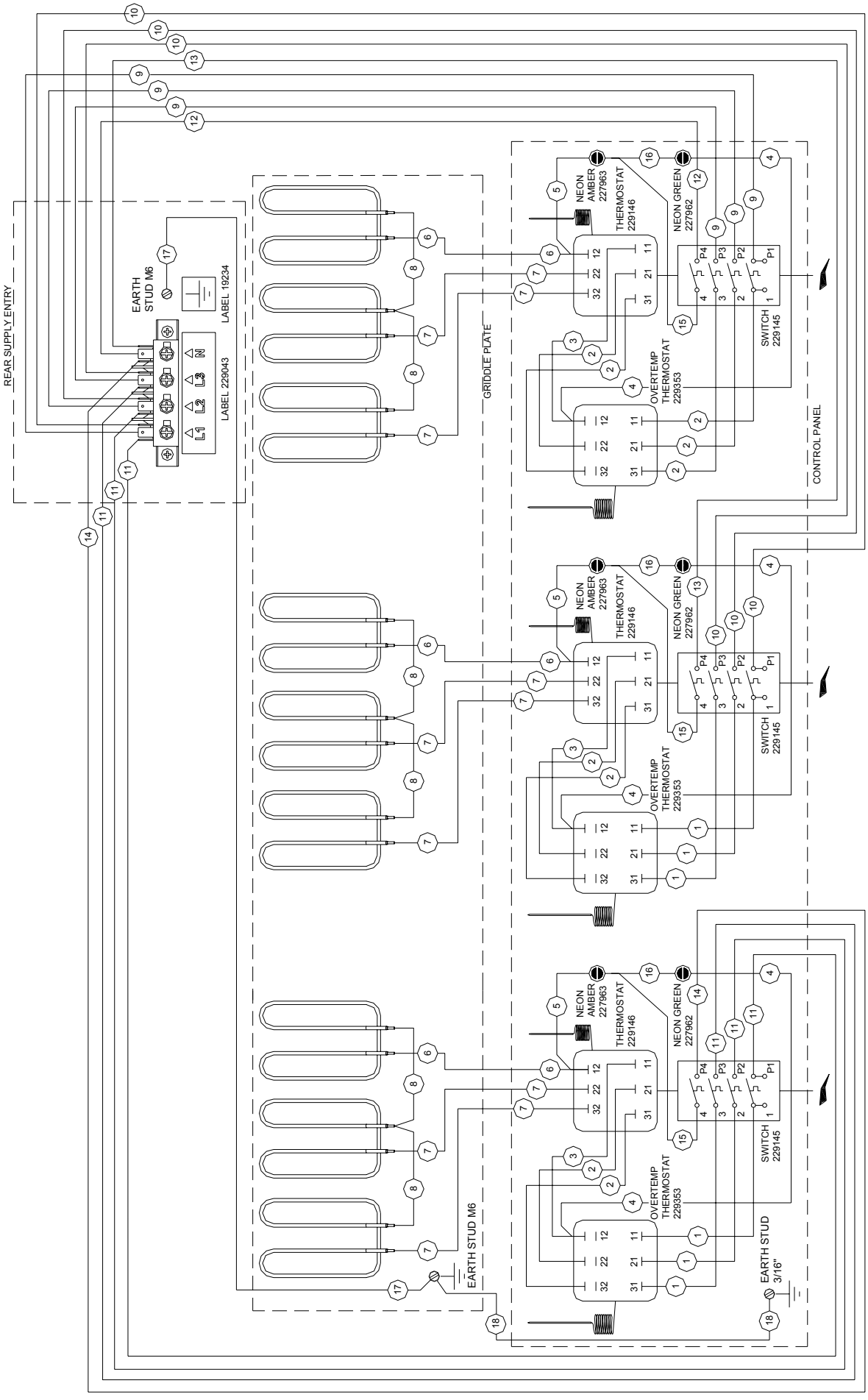
EP514 Wiring Schematic



EP516 Wiring Schematic



EP518 Wiring Schematic



Replacement Parts List

IMPORTANT:

Only genuine authorized replacement parts should be used for the servicing and repair of this appliance. The instructions supplied with the parts should be followed when replacing components.
For further information and servicing instructions, contact your nearest authorized service branch (contact details are as shown on the reverse of the front cover of this manual).

When ordering replacement parts, please quote the part number and the description as listed below. If the part required is not listed below, request the part by description and quote model number and serial number which is shown on the rating plate.

Controls

227392	Control Knob - 50°C to 300°C.	
229146	Thermostat - 50°C to 300°C.	
229353	Overtemp 360°C, 3 Pole.	
229145	Switch 4 Pole.	
228922	Neon White.	
227963	Neon Orange.	
228571	Index Mark Moulding.	

General

229213	Element 2400W	(600mm Models).
229245	Element 2000W	(900 - 1200mm Models).
228400	Grease Drawer.	
227851	Leg 150mm (Adjustable).	
227855	Leg 80mm	(Bench Models Only).
229674	Rear Roller Assy.	
229224	Control Panel Hinge.	
232351	Rear Roller Assy (3 inch).	
227850	Leg 150mm (Flush Stud).	

Accessories

228566	Griddle Scraper Tool.	
228567	Smooth Plate Scraper Blades	(Pack of 5 blades).
228568	Ribbed Plate Scraper Blade	(Individual Blade).
228795	600mm Plinth Kit	(LS and CB Models only).
228799	900mm Plinth Kit	(LS and CB Models only).
228803	1200mm Plinth Kit	(LS and CB Models only).
228801	Refrigeration Base - 900mm Plinth Kit	(RB Models only).
228805	Refrigeration Base - 1200mm Plinth Kit	(RB Models only).

For the Refrigeration Cabinet Replacement Parts refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

Griddle Plate Options

Griddle Plate	Standard	Chromed (-C)	Ribbed
600mm	229212	229267	ON REQUEST, Various options (depending on ribbed section width on LH or RH side).
900mm	229248	229270	
1200mm	229279	229281	